Abstract of the invention

An electronic safety system for the detection of a shaft failure and for the interruption of the energy supply to the shaft includes at least one measuring light guide (13) which is firmly routed in the shaft longitudinal direction, co-rotates with the shaft (1) and is connected to a light source (18) on a light inlet side (14). In the event of a shaft failure, the measuring light guide will break to diminish light transmission therethrough, with the absence of light on a light outlet side (15) being detected by an optical sensor (19) and being used, via evaluation and control electronics (20, 21), as a signal for the shut-off of the further energy supply at a fuel shut-off valve (22). The measuring light guide is fixed to a measuring sleeve (4) attached at both ends to the shaft.